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Table Consolidation Layout Troubleshooter

Table Consolidation Layout Troubleshooter

1 Overview

1.1 Overview - Table Consolidation Layout Troubleshooter 4

2 Usage

2.1 Using the Table Consolidation Layout Troubleshooter 6

Overview

Overview - Table Consolidation Layout Troubleshooter

This document explains how to use the Table Consolidation Layout Troubleshooter utility to resolve issues with layout creation after Pass#1 of the layout creation process.

When might you need to use this utility?

If the number of layouts created within the FileMaker database during Pass#1 doesn't match the number of layouts listed within the Layouts tab of FmPro Migrator.

Despite it's name, this utility could be used for Access to FileMaker and Visual FoxPro conversion projects in addition to its use for FileMaker Table Consolidation projects.

Documentation Revision 1

Table Consolidation Layout Troubleshooter 1.05

1/31/2020

Usage

Using the Table Consolidation Layout Troubleshooter

When to use the Table Consolidation Layout Troubleshooter utility?

FmPro Migrator automatically builds layouts within a FileMaker database during 3 different types of conversion projects:

- 1) FileMaker Table Consolidation projects - in which multiple FileMaker database files are consolidated/merged into one single new file.
- 2) Microsoft Access to FileMaker conversion projects - in which the Forms/Reports within an Access database are converted into FileMaker layouts.
- 3) Visual FoxPro to FileMaker conversion projects - in which the Forms/Reports within a Visual FoxPro project are converted into FileMaker layouts.

Since this process uses GUI automation to perform the automated creation of layouts within the FileMaker database, the possibility exists that one or more layouts could fail to get created for a variety of reasons.

If this problem occurs, you will know that the number of layouts created within the FileMaker database doesn't match the number of layouts listed within the layouts tab of the FmPro Migrator Migration Process window.

Table Consolidation Note:

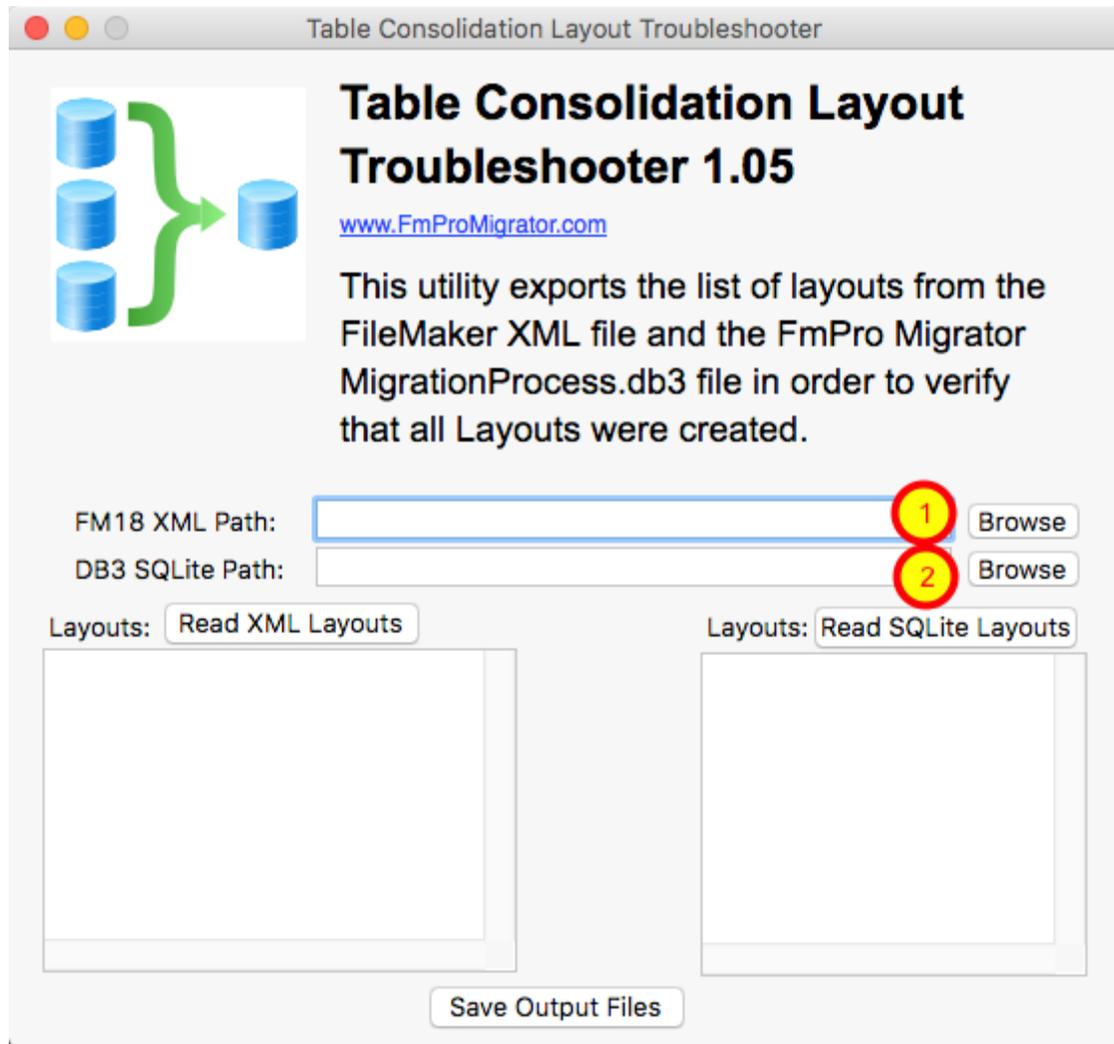
The number of layouts within the FileMaker database after Pass#1 should equal the number of layouts listed in the layouts tab +1 - to account for the first layout named: Get TOs List within the FileMaker template database:

of Layouts in FmPro Migrator layouts tab
+1 - Get TOs List layout
= Total layouts in FileMaker database

Access & Visual FoxPro Note:

The number of layouts within the FileMaker database after Pass#1 should include the Get TOs List layout plus the number of tables created, and the number of layouts listed in the FmPro Migrator layouts tab:

of Layouts in FmPro Migrator layouts tab:
+1 - Get TOs List layout
of tables created (1 layout created for each table by default)
= Total layouts in FileMaker database

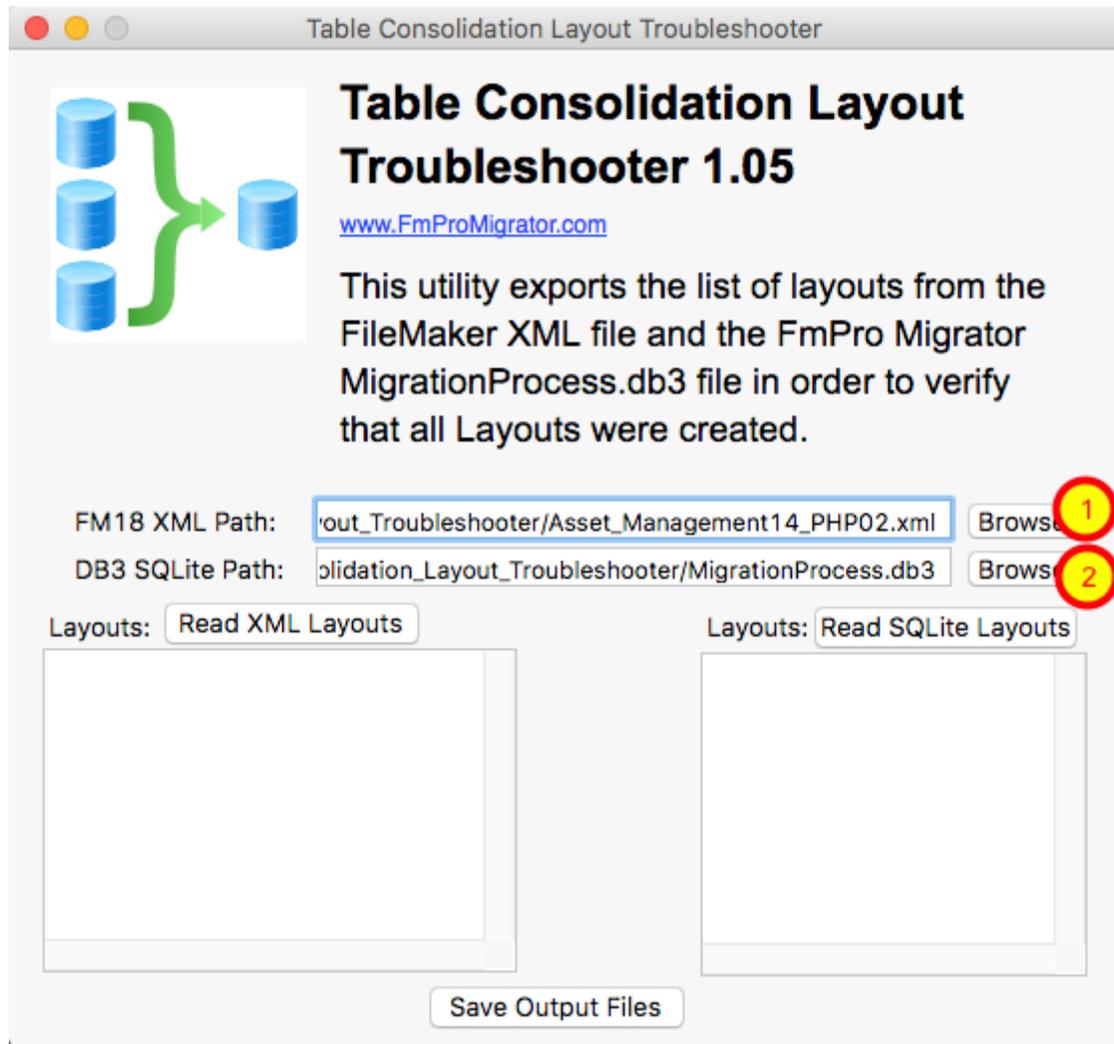


The Table Consolidation Layout Troubleshooter uses 2 sources of information to obtain the lists of layouts it produces:

- 1) The FileMaker XML file created by FileMaker 18 (or higher).
- 2) The MigrationProcess.db3 SQLite project file used by FmPro Migrator.

The output files are two TAB delimited text files showing the name of each layout and its TO name. Once the files have been created, a diff utility can be run to compare the files to each other.

Selecting XML and MigrationProcess.db3 Files



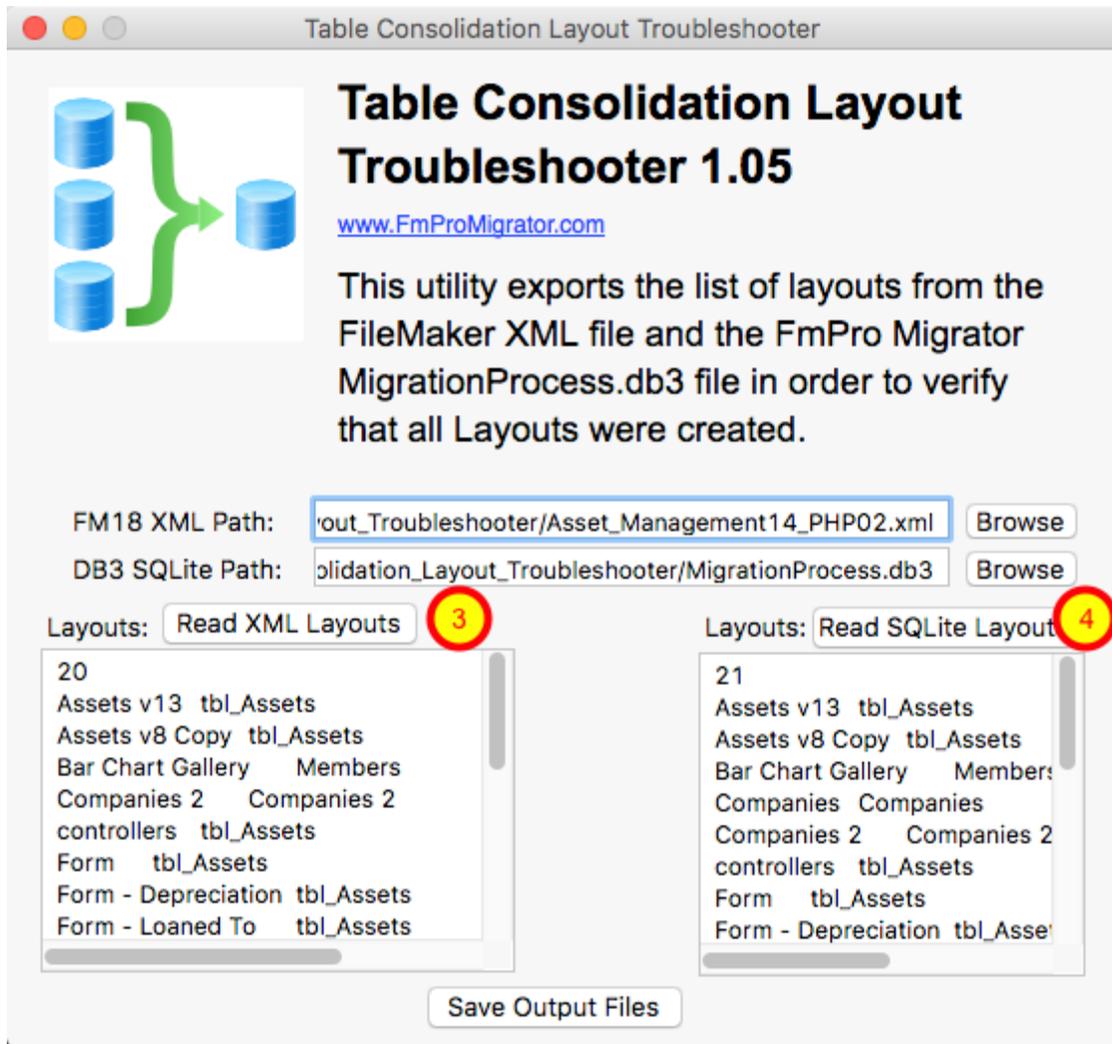
1) First, export the database XML file using FileMaker Pro Advanced 18 (or higher), by selecting the Tools -> Save a copy as XML... menu item.

Note: This tool uses the new FileMaker 18 XML file, not the older DDR XML file format.

Then click the Browse button to select this XML file for the FM18 XML Path field.

2) Click the Browse button to select the FmPro Migrator MigrationProcess.db3 SQLite file, the path will get written into the DB3 SQLite Path field.

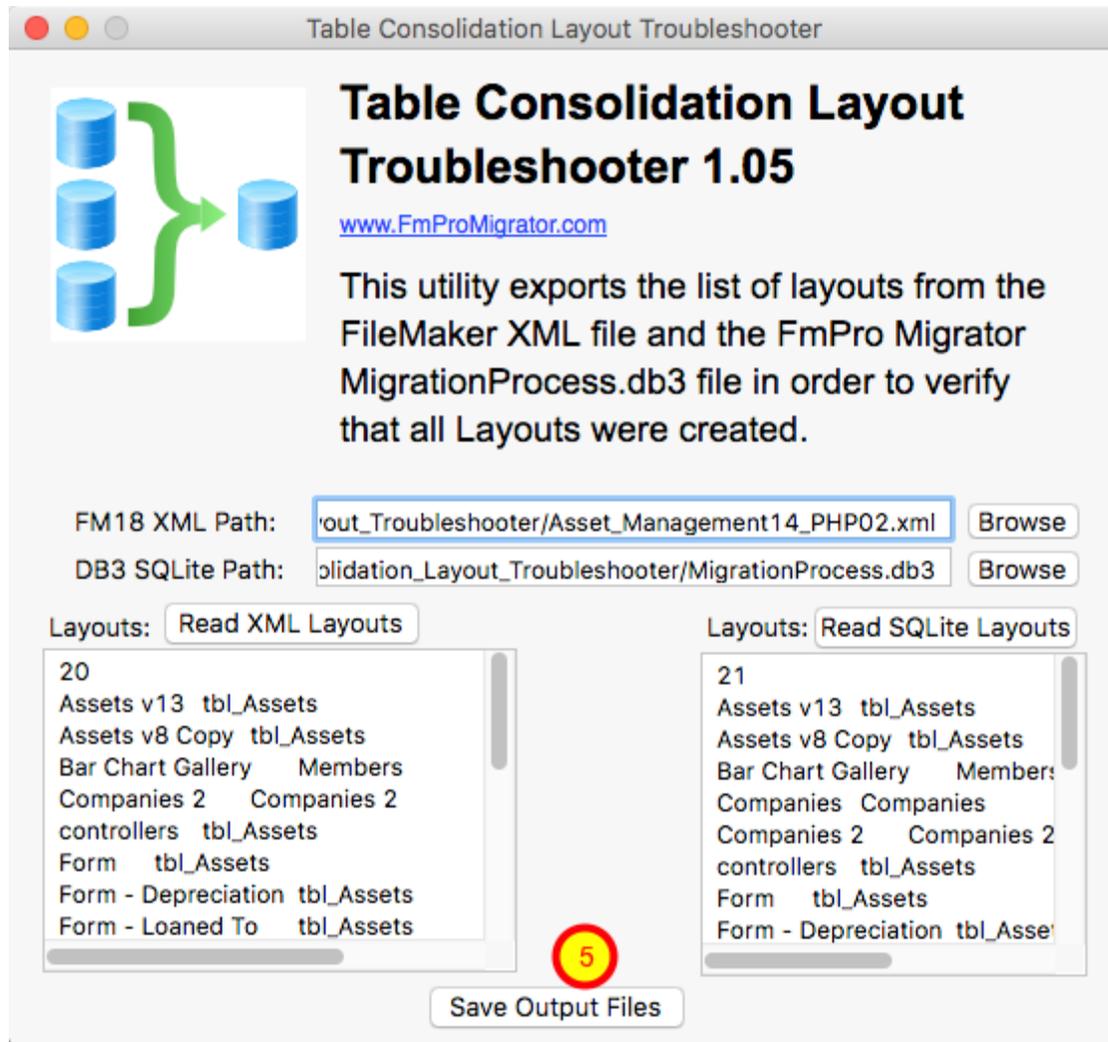
Reading XML and MigrationProcess.db3 Files



Click the (3) Read XML Layouts and (4) Read SQLite Layouts buttons.

The results will be displayed in the respective fields. In this example it is easy to see that the number of layouts read from the FileMaker database XML file is 20 layouts, and the number of layouts read from the FmPro Migrator MigrationProcess.db3 file is 21 layouts. So this means that one layout is missing from the FileMaker database file.

Creating Output Files



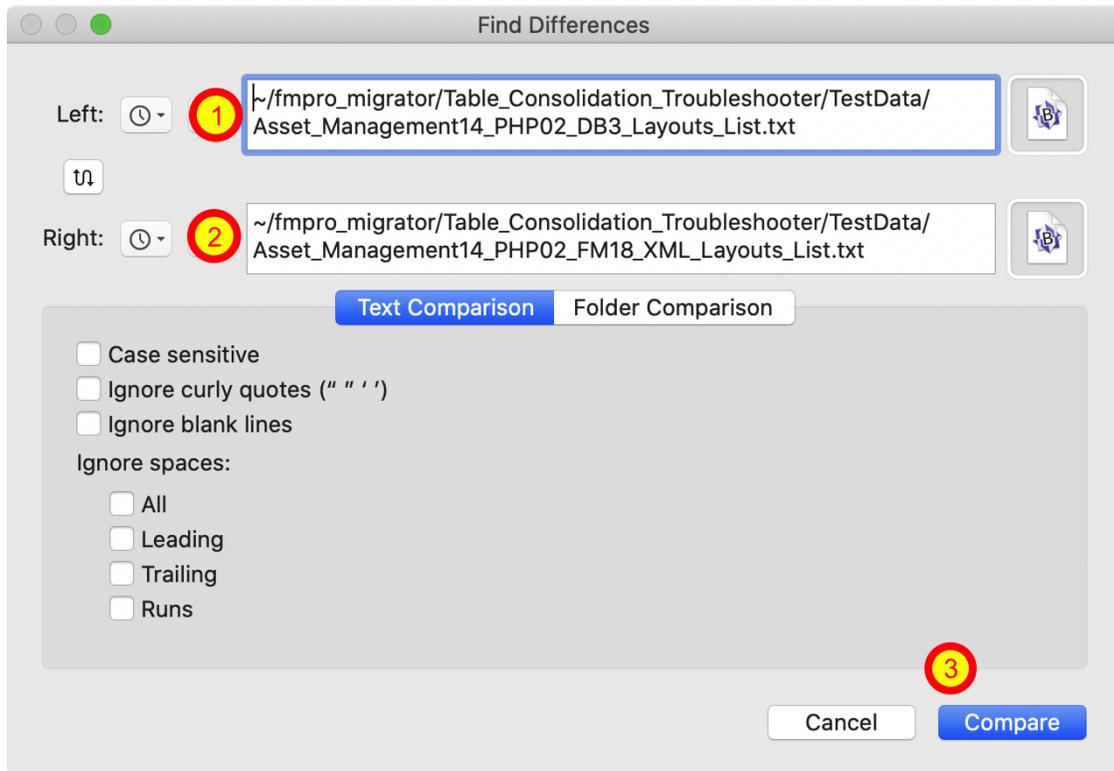
(5) Click the Save Output Files button, and the two text files will be written into the folder containing the FileMaker XML file, and the folder will be opened automatically. The files can now be opened and compared using your favorite text editor such as BBEdit (macOS) or UltraEdit (macOS & Windows).

Each output file uses the format:

Layouts - Line #1

<Layout Name> TAB <Table Occurrence Name> - for all of the remaining lines of text.

BBEdit - Comparing Output Files



Two files will be saved into the XML file directory, these files will be named after the name of the XML file, such as the following:

Asset_Management14_PHP02_FM18_XML_Layouts_List.txt
Asset_Management14_PHP02_DB3_Layouts_List.txt

On macOS, it is easy to use the free or paid versions of BBEdit to compare the two files.

Select the Search -> Find Differences... menu item.

Select the two files in the file selectors (1, 2), then click the Compare button.

BBEdit - Search Results

Differences — Asset_Management14_PHP02_DB3_Layouts_List.txt vs. Asset_Management14_PHP02_FM18_XML_Layouts_List.txt

Line	Left Pane (DB3_Layouts_List.txt)	Right Pane (FM18_XML_Layouts_List.txt)
1	21	20
2	Assets v13 tbl_Assets	Assets v13 tbl_Assets
3	Assets v8 Copy tbl_Assets	Assets v8 Copy tbl_Assets
4	Bar Chart Gallery Members	Bar Chart Gallery Members
5	Companies Companies	Companies 2 Companies 2
6	Companies 2 Companies 2	controllers tbl_Assets
7	controllers tbl_Assets	Form tbl_Assets
8	Form tbl_Assets	Form - Depreciation tbl_Assets
9	Form - Depreciation tbl_Assets	Form - Loaned To tbl_Assets
10	Form - Loaned To tbl_Assets	Information tbl_Assets
11	Information tbl_Assets	List tbl_Assets
12	List tbl_Assets	Maint_Record tbl_Maintenance_Records
13	Maint_Record tbl_Maintenance_Records	Members Members
14	Members Members	Members_Test Members
15	Members_Test Members	pages tbl_Assets
16	pages tbl_Assets	Pie Chart Gallery Members
17	Pie Chart Gallery Members	Popover1 tbl_Assets
18	Popover1 tbl_Assets	Popover2 tbl_Assets
19	Popover2 tbl_Assets	TabPanel_Test_FM16 tbl_Assets
20	TabPanel_Test_FM16 tbl_Assets	tbl_Value_List_Data_Items tbl_Value_List_Data_Items
21	tbl_Value_List_Data_Items tbl_Value_List_Data_Items	views tbl_Assets
22	views tbl_Assets	

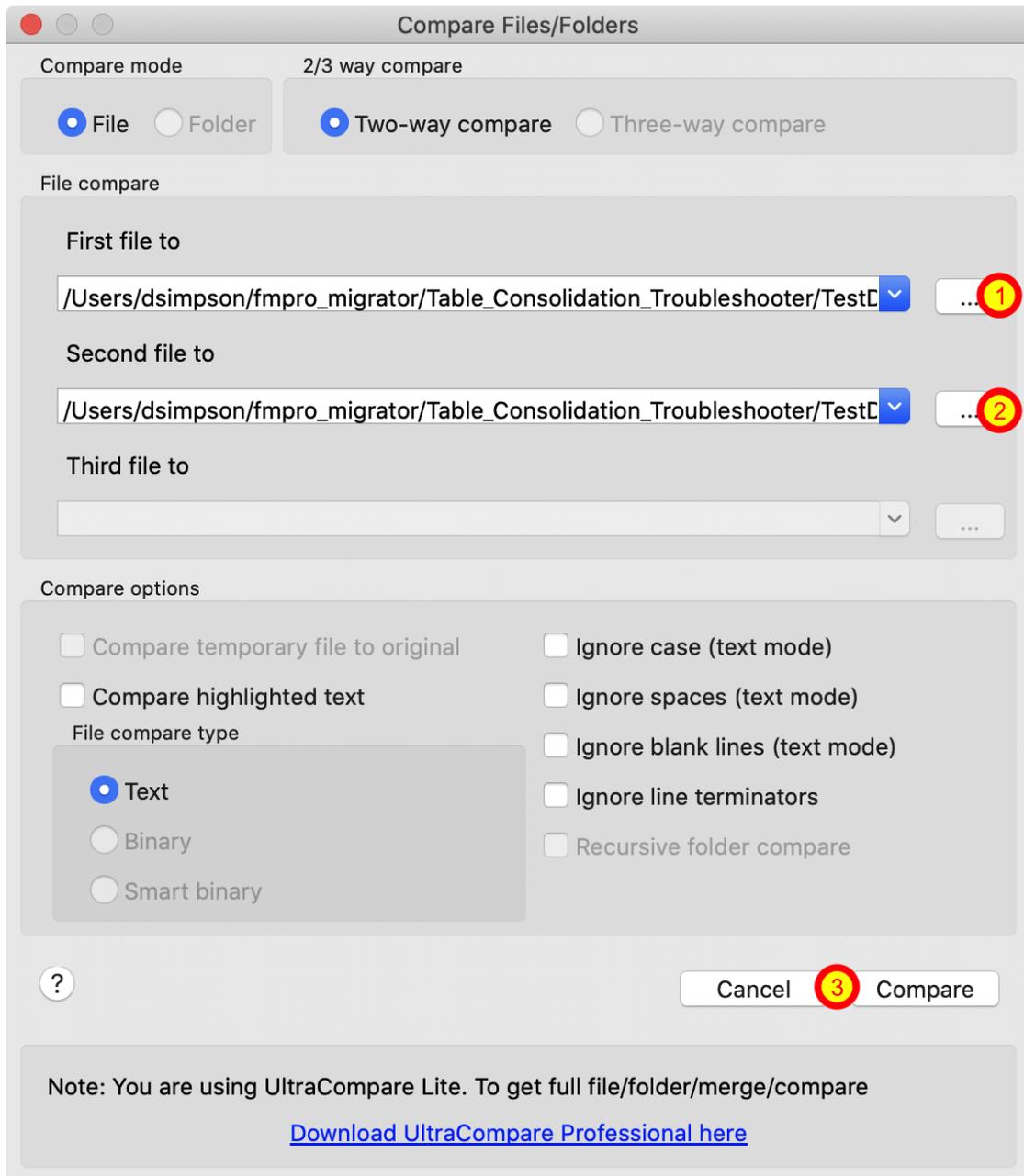
L: 1 C: 1 Saved: 1/31/20, 4:05:42 PM 513 / ... / 22 L: 1 C: 1 Saved: 1/31/20, 4:05:42 PM 493 / ... / 21

← Apply Apply →

Nonmatching Lines (File Asset_Management14_PHP02_DB3_Layouts_List.txt; Line 1; File Asset_Management14_PHP02_FM18_XML_Layouts_List.txt; Line 1)
Extra lines in Left before 5 in Right (File Asset_Management14_PHP02_DB3_Layouts_List.txt; Line 5; File Asset_Management14_PHP02_FM18_XML_Layouts_List.txt; Line 5)

Line #1 displays a difference due to the different count of layouts. But Line#5 is where the difference exists for the list of layouts. The layout named Companies (using a TO with the same name) shown on the left side as an extra layout which is the missing layout from the FileMaker database XML export shown on the right side.

UltraEdit - Comparing Output Files



Two files will be saved into the XML file directory, these files will be named after the name of the XML file, such as the following:

Asset_Management14_PHP02_FM18_XML_Layouts_List.txt

Asset_Management14_PHP02_DB3_Layouts_List.txt

On macOS or Windows, the UltraEdit text editor can be used to compare the two files.

Select the File -> Compare Files... menu item.

Select the two files in the file selectors (1, 2), then (3) click the Compare button.

UltraEdit - Search Results

```
UltraCompareX Lite
Asset_Management14_PHP02_DB3_Layouts_List.txt | Asset_Management14_PHP02_FM18_XML_Layouts_List.txt
/Users/(...)/Asset_Management14_PHP02_DB3_Layouts_List.t /Users/(...)/Asset_Management14_PHP02_FM18_XML_Layouts_List.txt

21 Assets v13 tbl_Assets
22 Assets v13 tbl_Assets
23 Assets v8 Copy tbl_Assets
24 Bar Chart Gallery Members
25 Companies Companies
26 Companies 2 Companies 2
27 controllers tbl_Assets
28 Form tbl_Assets
29 Form - Depreciation tbl_Assets
30 Form - Loaned To tbl_Assets
31 Information tbl_Assets
32 List tbl_Assets
33 Maint_Record tbl_Maintenance_Records
34 Members Members
35 Members_Test Members
36 pages tbl_Assets
37 Pie Chart Gallery Members
38 Popover1 tbl_Assets
39 Popover2 tbl_Assets
40 TabPanel_Test_FM16 tbl_Assets
41 tbl_Value_List_Data_Items tbl_Value_List_Data_Items
42 views tbl_Assets

20 Assets v13 tbl_Assets
21 Assets v8 Copy tbl_Assets
22 Bar Chart Gallery Members
23 Companies 2 Companies 2
24 controllers tbl_Assets
25 Form tbl_Assets
26 Form - Depreciation tbl_Assets
27 Form - Loaned To tbl_Assets
28 Information tbl_Assets
29 List tbl_Assets
30 Maint_Record tbl_Maintenance_Records
31 Members Members
32 Members_Test Members
33 pages tbl_Assets
34 Pie Chart Gallery Members
35 Popover1 tbl_Assets
36 Popover2 tbl_Assets
37 TabPanel_Test_FM16 tbl_Assets
38 tbl_Value_List_Data_Items tbl_Value_List_Data_Items
39 views tbl_Assets

Output Window
Pair [ 1 - 2 ] - 2 Block(s) diff 2 : 1 Line(s) diff Different
```

Line #1 displays a difference due to the different count of layouts. But Line#5 is where the difference exists for the list of layouts. The layout named Companies (using a TO with the same name) shown on the left side as an extra layout which is the missing layout from the FileMaker database XML export shown on the right side.

Fixing Missing Layouts Procedure - Table Consolidation Projects

Migration Process

Tables Relationships TOs Value Lists CFs **Layouts** Scripts GUI

Instructions: Layouts: 21 Companies Table: Companies Pass#2

Layout Migration:
[Used for Table Consolidation, Access to FileMaker Pro and FileMaker Layout to HTML, Servoy, Visual FoxPro and Access migration projects.]
Within FileMaker 7+ (layout mode), select all objects on a layout then select Copy from the Edit menu. Click the Add Layout button on this screen to copy the layout definition from the clipboard into FmPro Migrator. Each layout can be copied individually in this manner, or all layouts can be imported in batch mode (see info below). Each layout is given a default name in the form: Layoutxx where xx is an incrementing number. The currently selected layout or

Layout Name	Record Count	Field Count	Other
Assets v13	1790,2061	36	1
Assets v8 Copy	1792,2061	37	1
Bar Chart Gallery	1255,2190	3	0
Companies	355,127	5	0
Companies 2	355,127	5	0
Form	810,1024	16	1

Portals:

Portal Name	Fill Method	Field Titles

Layout Image

Company Company
Company Address Company Address
City City
Country Country
ID ID

If there is only one missing layout, the easiest way to fix the issue is as follows:

- 1) Select the missing layout from the FmPro Migrator layouts tab, and click on the Copy Layout to Clipboard button in FmPro Migrator. Create a new Layout in the FileMaker database, set its TO Name, delete the layout parts before pasting the layout from the clipboard. This layout will then go into the last position within the list of layouts - normally causing a mismatch during Pass#2 processing.
- 2) Save a copy of the MigrationProcess.db3 file - into another folder.

- 3) Delete the missing layout from the original MigrationProcess.db3 file.
- 4) Perform Pass#2 automated processing - this missing layout will get missed, but all of the other layouts will have their contents replaced correctly.
- 5) Manually replace the contents of the missing layout by using the saved copy of the MigrationProcess.db3 file.

Fixing Missing Layouts Procedure - Visual FoxPro and Access to FileMaker Conversion Projects

The screenshot shows the 'Migration Process' application window. The 'Layouts' tab is selected, and a table of layout data is displayed. A red box highlights the 'Copy Layout to Clipboard' button in the toolbar. The table below shows the layout data:

Layout Name	Record Count	Field Count	Table
Assets v13	1790,2061	36	1
Assets v8 Copy	1792,2061	37	1
Bar Chart Gallery	1255,2190	3	0
Companies	355,127	5	0
Companies 2	355,127	5	0
Form	810,1034	16	1

Below the table, there is a 'Portals' section with a table for 'Portal Name', 'Fill Method', and 'Field Titles'. At the bottom right, there is a 'Layout Image' showing a form with fields for Company, Company Address, City, Country, and ID.

If there is only one missing layout, the easiest way to fix the issue is as follows:

- 1) Select the missing layout from the FmPro Migrator layouts tab, and click on the Copy Layout to Clipboard button in FmPro Migrator. Create a new Layout in the FileMaker database, set its TO

Name, delete the layout parts before pasting the layout from the clipboard. This layout will then go into the last position within the list of layouts - which won't cause any problems.